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THE

SCHOOL OF PHARMACY,

PURDUE UNIVERSITY,

LAFAYETTE, IND.

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SECOND ANNUAL ANNOUNCEMENT

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JOSEPH H. SMART, A. M., LL. D.,
President of the University.

ROBERT B. WARDER, A. M., B. S.,
Professor of Chemistry.

JOHN N. HURTY, M. D.,
Professor of Pharmacy.

*
Professor of Materia Medica and Toxicology.

CHARLES R. BARNES, A. M.,
Professor of Botany.

* To be appointed.

ANNOUNCEMENT.

The School of Pharmacy is established by the Trustees of Purdue University in response to the growing demand for a thorough practical and theoretical training in Pharmacy and related branches. The University has large and convenient laboratories for chemistry and botany, with all the necessary appliances and materials for instruction and for research. With the instruction in Pharmacy and Materia Medica recently added, including both lectures and practical exercises in pharmaceutical manipulation, the student will find ample facilities for a thorough course of training, which will compare well with the opportunities offered in the other Schools of Pharmacy.

Until recently the usual School of Pharmacy in the United States consisted essentially of *lecture courses* on Chemistry, on Pharmacy, and on Materia Medica and Botany; about forty lectures being given by each of the three professors in a five months' course; but each student was required to have about four years' practical experience in a dispensing pharmacy before graduation. Under this system a large amount of practical experience was required, and but a limited amount of college training. One or two institutions have recently made an innovation upon this plan. They have required a very much larger amount of college work, including lectures and laboratory manipulations, but have required little or no practical experience in the dispensing or the manufacturing pharmacy for either admission or graduation.

The authorities of Purdue University have endeavored to combine the advantages of both systems in their scheme, and, therefore, have required a considerable amount of practical experience for admission, with a larger amount for graduation; and, at the same time, have provided a larger amount of college work than has been heretofore usually offered in schools of pharmacy. It is thus

expected to maintain a school of a high degree of excellence, which should, therefore, secure the hearty good will and support not only of the pharmacists, but also of the people of the State.

As far as practicable, the general plan will conform to that of existing schools of pharmacy, but more than the usual amount of laboratory practice will be required. The instruction includes a junior and a senior course of twenty weeks each. Students who show marked diligence will be allowed to remain in the University during the whole of the college year, without extra charge for tuition, to pursue a supplementary course in chemistry, botany and other subjects during the spring months.

Women will be admitted on the same conditions as men.

The course of study is outlined below.

JUNIOR COURSE.

The student's entire time will be occupied. The instruction in the lecture-room and laboratory will not be less than twenty-two hours per week; and additional laboratory work will be afforded to all students who are able to take it. Examinations will be held at such times as the Faculty may determine. Students who complete the junior course, passing all the required examinations, will receive a certificate of this fact.

CHEMISTRY.

Four lectures and four laboratory exercises per week will be required, each laboratory exercise lasting at least two hours.

The preparation and properties of the more important elements and their compounds will be considered in the lectures, with ample experimental illustrations. Due attention will be given to the practical applications of chemistry in medicines. Chemical philosophy will be gradually introduced, as the student acquires a sufficient variety of facts from which to generalize.

The laboratory exercises will begin with a study of non-metals (simple and combined), metals and salts. Qualitative analysis will then be continued through the junior course.

Frequent quizzes will be a marked feature of instruction.

PHARMACY.

Two lectures and two laboratory exercises per week.

The following topics will be considered in the lectures: The Pharmacopœias, weights and measures, specific gravity, apparatus and manipulations for generating, regulating, and applying heat, comminution, sifting, solution, elutriation, filtration, clarification, maceration, infusion, digestion, percolation, evaporation, distillation, precipitation, crystallization, and the preparation of inorganic medicinal chemicals. Each student will also have practical laboratory work in pharmaceutical manipulations, such as comminution, percolation, and distillation, and will be trained in the preparation of extracts, tinctures, sirups, pills, ointments, etc., and in the compounding of medicines.

BOTANY.

Required Course.

This course in Botany includes the study of the gross anatomy of typical plants and their organs, with special reference to homology. At suitable periods during this study, lectures upon anatomy and physiology will be given. The subjects of food, assimilation and metastasis, growth, fertilization, influence of light and temperature, movements, etc., are treated as nearly as possible in connection with the organs with which they are most intimately associated.

Optional Courses.

1. MICROSCOPIC ANATOMY.—This includes a study of isolated cells, the cell-wall, cell contents (protoplasm, chlorophyll, starch, etc.), union of cells into tissues, and the aggregation of these tissues into systems. Subsequently, the minute anatomy of a few typical plants will be studied. Special attention will be given to those parts of plants in which medicinal substances are commonly found. Students will in addition to the botanical training, gain a valuable facility in the use of the compound microscope.

2. SYSTEMATIC BOTANY.—The spring term may be spent in determining the names of the common wild flowering plants and a study of their gross anatomy. Instruction in methods of collecting and preserving plants will be given.

As far as possible, medicinal plants will be used for illustrative study in the laboratory, both in the required and optional courses.

SENIOR COURSE.

Chemistry and Pharmacy will be taught with greater detail than in the Junior year; while full instruction will be given in *Materia Medica* by lectures and the examination of specimens.

The chemical lectures will present an outline of the chemistry of carbon compounds, including the more prominent constituents of plants and animals. The volumetric processes of the *Pharmacopœia* will be practiced in the laboratory.

ADMISSION TO JUNIOR CLASS.

Applicants having a good common school education, who present satisfactory certificates that they have had practical experience of twenty-four months in a dispensing pharmacy or manufacturing pharmaceutical laboratory under the guidance of a reliable and competent pharmacist, will be admitted without examination. Others who have had superior advantages, but for a less time than two years, will be admitted, provided they give evidence by examination or otherwise, that they are qualified to take the Junior Course.

ADMISSION TO SENIOR CLASS.

Students who have passed satisfactory examinations on all the studies of the Junior course in this or some other recognized School of Pharmacy, will be admitted to the Senior Class. But since many schools require no laboratory work, those who come from other schools must give proof of such laboratory training as may be necessary to pursue all the Senior studies successfully. In special cases, students who have had unusual opportunities and show marked proficiency may be permitted to take both Junior and Senior work at the same time.

GRADUATION.

The degree of Graduate in Pharmacy (Ph. G.) will be conferred upon each student not less than twenty-one years of age, who successfully completes the required course, presents a satisfactory thesis, and furnishes evidence of having had a practical experience of forty-two months in a dispensing pharmacy under the guidance of a competent and reputable preceptor; but the time spent in the School of Pharmacy may be included in this term of service. Besides the examinations on the lectures, an examination in practical pharmacy, proving the candidate's familiarity with such details as are best learned behind the counter, will be required for graduation.

Those who complete the Senior Course, passing all examinations upon the course of instruction, who are under twenty-one years of age, or have not fulfilled the requirements of practical experience in a dispensing pharmacy, may return for examination in pharmaceutical practice and for the usual diploma, after complying with the prescribed conditions.

APPLIANCES.

Purdue University is well equipped with lecture-rooms, laboratories, museums and apparatus. Each student in chemistry has his own table with reagents and keeps his apparatus under lock and key. The needed supplies are furnished at the lowest possible prices. Percolators, mortars, and other pharmaceutical utensils are provided. Students in botany have the free use of simple and compound microscopes. An herbarium of over 2,000 species, mounted and labelled, and a set of 300 economic products of plants are in the University collection. An effort will be made to secure a full and instructive collection of materia medica. The Library contains one hundred and forty volumes, specially relating to chemistry and pharmacy. The Reading-room is open to students about eight hours per day. The Annual Register of Purdue University, containing full information of the various courses, laboratories, and museums, will be sent on application.

TEXT BOOKS.

The following text books (the latest editions) will be used. Each student of the Junior course will, at least, provide himself with those indicated by italics. Others will be duly announced, as required.

CHEMISTRY. *Attfeld.*

PHARMACY. *Parrish.*

U. S. Pharmacopœia.

MATERIA MEDICA. U. S. Dispensatory.

National Dispensatory.

Maish's Organic Materia Medica.

BOTANY. *Gray's Lessons.*

Bessey's Botany (for course in microscopic anatomy).

Gray's Manual (for course in systematic botany).

STUDENTS, 1884-85.

E. G. EBERHARDT,	Indianapolis.
M. JAY,	Lafayette.
JOHN KENNEDY,.....	Worthington.
M. MARK,.....	Sweetzer.
A. W. SHOUP,	Battle Ground.
GEO. M. WEBER,.....	Zionsville.
W. H. WEYHER,.....	Chauncey.

EXPENSES.

Instruction is free, and the expenses are, therefore, far less than in the majority of similar schools; while unusual facilities are afforded for laboratory practice.

The fees are as follows, payable in advance, for each course of twenty weeks:

Matriculation....	\$10 00
Incidentals	8 00
Chemicals and gas	10 00

There will also be charges for breakage, for which a laboratory deposit of \$10.00 is required.

Good board and lodging may be had for about \$3.50 per week. One hundred and twenty-five dollars should cover the total expense of board, room-rent, fees, books, etc., for twenty weeks.

Correspondence may be addressed to

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